

## EXTRUDED MANIFOLD AND METHOD OF MAKING SAME

### Abstract of the Invention

An extruded D-shaped manifold machined from extruded tubing is generally D-shaped in cross-section, with the header being thicker than the tank. At least two longitudinal external ribs are formed on the header exterior, preferably positioned symmetrically relative to the longitudinal axis of the header. The external ribs provide additional strengthening of the header and act as stops to prevent the heat exchanger fins from contacting the tube/manifold joint (which can lead to leakage when the joint is brazed). The number of external ribs and their location depend on the size of the manifold and the precision required in positioning the heat exchanger tubes in the slots. The manifold can be extruded with lengthwise internal ribs extending along the interior sides of the tank to act as stops for the heat exchanger tubes.